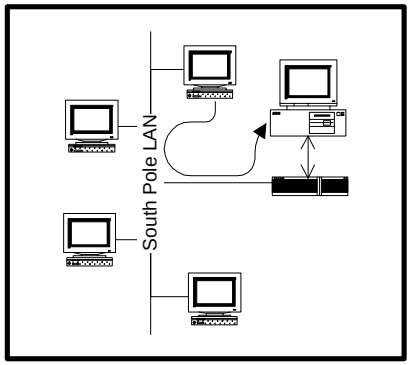
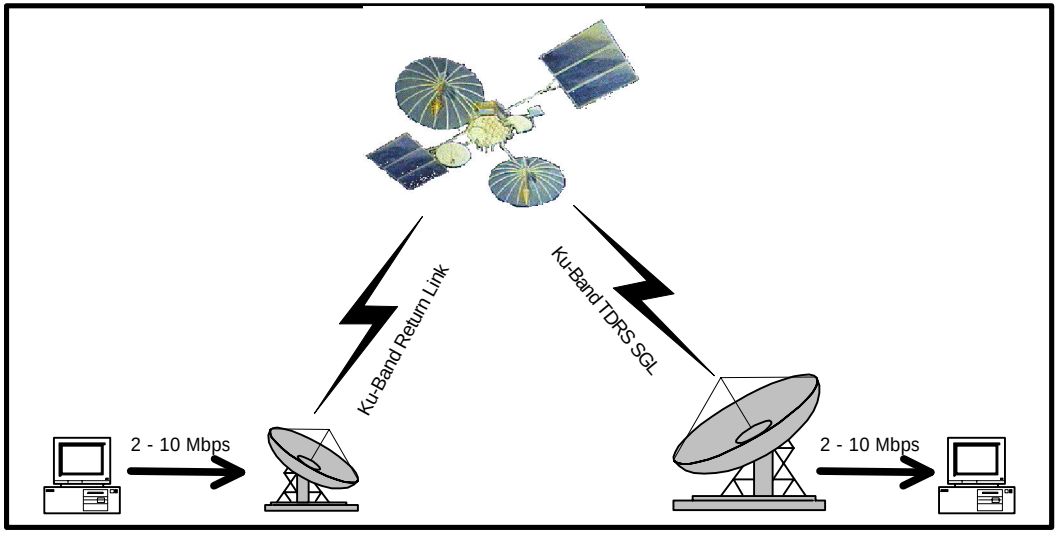
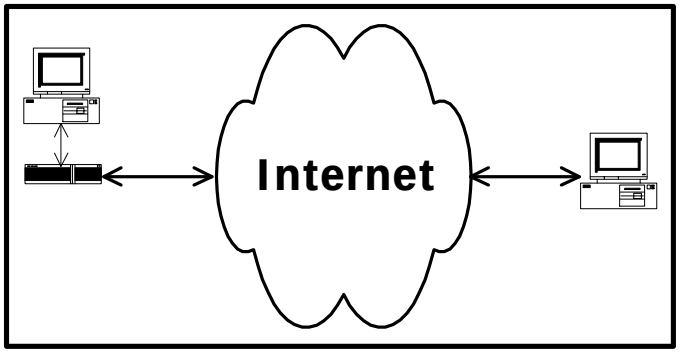
High Data Rate File Transfer Operations Concept



Step 1:
South Pole User copies file into the "mailbox" directory of the South Pole File Server (SPFS).



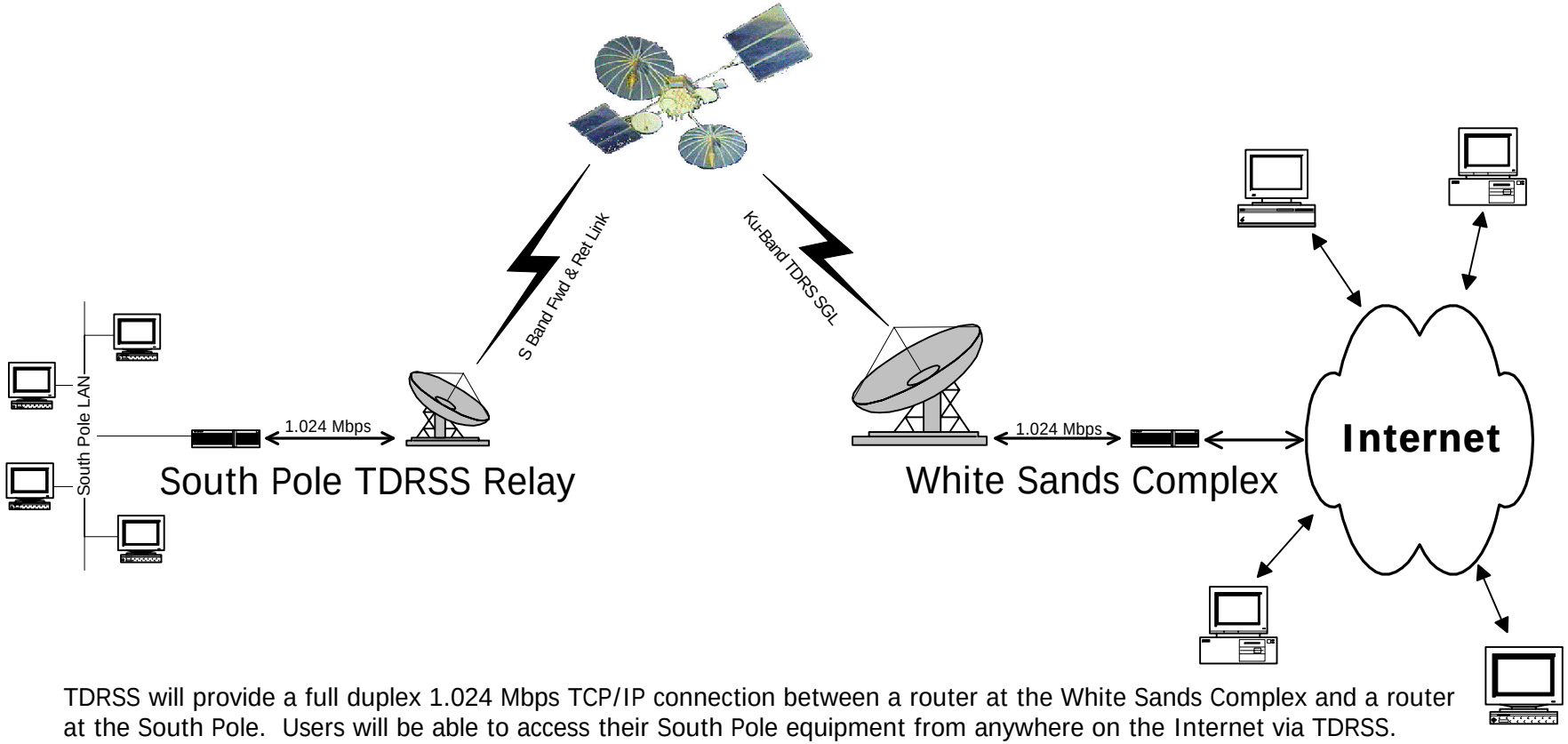
Step 2:
The SPTR system duplicates the contents of the SPFS "mailbox" directory onto the White Sands File Server (WSFS) during the daily TDRSS event.



Step 3:
South Pole User retrieves file off of WSFS via FTP (available 24 hours/day).

Notes:
1. Initial File Server Capacity will be approximately 2 Gbytes.
2. Files will initially be transmitted through TDRSS at 2-10 Mbps. (RF link designed for eventual 50 Mbps capacity)
3. Users will be responsible for placing their files onto the SPFS and removing them from the WSFS.

TCP/IP Connection Operations Concept



TDRSS will provide a full duplex 1.024 Mbps TCP/IP connection between a router at the White Sands Complex and a router at the South Pole. Users will be able to access their South Pole equipment from anywhere on the Internet via TDRSS.

The schedule for the TDRSS supports will be distributed via e-mail and a SPTR Website.

The TDRS-1 satellite view periods will fill part of the gap between the current GOES-3 and LES-9 supports.

Predicted TDRS-1 coverage of the South Pole

Date	Inclination	Max El. Angle	Time > 0 deg
6/97	9.5	0.84	2hr 48min
6/98	10.1	1.43	4hr 5min
6/99	10.7	2.03	4hr 40min
6/00	11.3	2.64	5hr 15min